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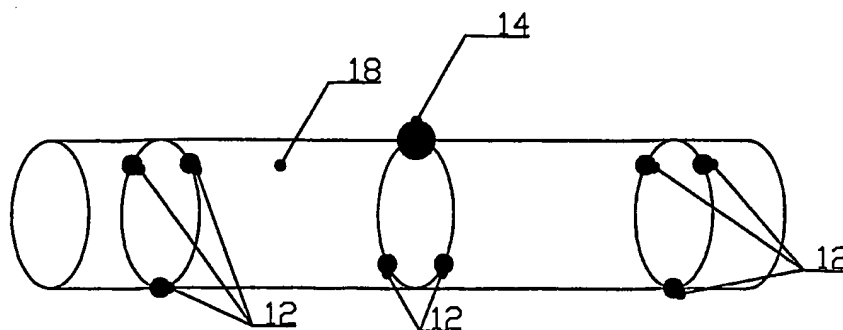
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- (71) Applicant (for all designated States except US): CLAMPON AS [NO/NO]; Damsgårdsgaten 127, N-5162 Laksevåg (NO).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): INSTANES, Geir [NO/NO]; Lille Skjolddal 21, N-5222 Nestun (NO). ALDAL, Dag [NO/NO]; Klauvsteinen 50, N-5146 Fyllingsdalen (NO).
- (74) Agent: AS BERGEN PATENTKONTOR; Strandgaten 198, P.O. Box 1998, Nordnes, N-5817 Bergen (NO).
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(54) Title: METHOD AND SYSTEM FOR DETERMINING STRUCTURAL FEATURES OF AN ACOUSTIC MATERIAL



(57) Abstract: A method is described to register structural features in an acoustic conducting material, such as the sheet material of a pipe, a duct, container or the like, where instrumentation fitted at the surface of the material, is used to emit and receive signals in/through the solid material and also to register changes in the received signals as a consequence of changes in the material structure. The method is characterised in that a sensor, or several sensors mutually spaced apart, is (are) arranged to be in contact with the surface of the material, and the sensor(s) is (are) arranged to emit and receive signals to provide an acoustic network with information about the structure of the material, and that the received acoustic signals are compared to previous acoustic signals to ascertain the existence of structural changes in the solid material, and any occurrences of defects in the solid material, and also the position of such defects. A system to carry out the method is also described.